

# WOODHOUSE EXHIBIT 4

# **EXHIBIT D**

## Message

**From:** Melanie Kambadur [REDACTED@meta.com]  
**Sent:** 8/18/2023 9:52:21 PM  
**To:** Melanie Kambadur [REDACTED@meta.com]; Nisha Deo [REDACTED@meta.com]  
**Subject:** Message summary [{"otherUserFbId":100076652037303,"threadFbId":null}]  
**Attachments:** 279159887\_704475240903299\_7495330466370328987\_n.gif

Nisha Deo (8/18/2023 13:34:32 PDT):  
>Hi Melanie - do you know if we used the Books data set in Llama 2?

Melanie Kambadur (8/18/2023 13:34:51 PDT):  
>yes we did

Melanie Kambadur (8/18/2023 13:35:07 PDT):

**Redacted**

Nisha Deo (8/18/2023 13:36:40 PDT):

**Redacted**

Melanie Kambadur (8/18/2023 13:38:22 PDT):  
>what do you mean by that?

Nisha Deo (8/18/2023 13:44:01 PDT):  
>WELP for full context we have a inquiry from the atlantic about the use of books3 in Llama -- so basically wondering if it's at all possible for them to deduce that it was used in Llama 2

Nisha Deo (8/18/2023 13:44:11 PDT):

>questions they posed include:

>  
>The research paper about the construction of LLaMa clearly states that Books3 is among the corpora of the program's training data. Can you confirm this is true?  
>  
>- Was Meta aware at the time that Books3 includes pirated books? Do you have further comment about this?  
>  
>- Was Meta aware at the time that Books3 includes books that have been stripped of copyright information, possibly in violation of the DMCA? Do you have further comment about this?  
>  
>- Knowing the above, does Meta have any plans to update LLaMa to remove the use of Books3 or other copyrighted material?

Melanie Kambadur (8/18/2023 13:45:56 PDT):

**Redacted**

Nisha Deo (8/18/2023 13:47:00 PDT):  
>totally, have looped Ahuva in

Nisha Deo (8/18/2023 13:47:07 PDT):  
>and will start an escalation

Nisha Deo (8/18/2023 13:47:14 PDT):

>was just trying to understand "ground truth" as they say

Nisha Deo (8/18/2023 13:47:31 PDT):

**Redacted**

Melanie Kambadur (8/18/2023 13:51:10 PDT):

>yes I went to an AI event yesterday with a bunch of people from other companies and any time I mention I worked on Llama 2 they kept asking me about datasets 😊 I was just like see the paper/ no comment lol

Melanie Kambadur (8/18/2023 13:51:36 PDT):

**Redacted**

Melanie Kambadur (8/18/2023 13:51:49 PDT):

**Redacted**

Nisha Deo (8/18/2023 13:55:04 PDT):  
>bafflingly leaky

Nisha Deo (8/18/2023 13:55:16 PDT):

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Nisha Deo (8/18/2023 14:04:16 PDT):  
>back to books3 -- do you know if assurances from them that their catalog didn't contain any pirated works?

Melanie Kambadur (8/18/2023 14:05:13 PDT):  
>I suppose the best defense I can think of is this: <https://github.com/EleutherAI/the-pile/blob/master/LICENSE>

Melanie Kambadur (8/18/2023 14:05:21 PDT):  
>the place we pulled it from has a permissive license

Melanie Kambadur (8/18/2023 14:05:29 PDT):

**Redacted**

Nisha Deo (8/18/2023 14:07:21 PDT):  
>totally

Nisha Deo (8/18/2023 14:07:38 PDT):  
>Did we have that same license on Llama 1?

Nisha Deo (8/18/2023 14:07:48 PDT):  
>(sorry, i owe you multiple drinks for asking you so many questions)

Melanie Kambadur (8/18/2023 14:08:11 PDT):  
>no worries. you mean for distributing Llama 1? if so, no because Llama 1 was a research only model and Llama 2 is commercial

Melanie Kambadur (8/18/2023 14:08:28 PDT):  
>but both were custom licenses not MIT

Melanie Kambadur (8/18/2023 14:10:18 PDT):

**Redacted**

Nisha Deo (8/18/2023 14:20:01 PDT):  
>My sense here is that the biggest news here is the assertion that Book3 was stripping books of copyright information -- rather than just the sheer number of copyrighted works they've apparently found

Nisha Deo (8/18/2023 14:20:12 PDT):  
>because, otherwise the fact that Books3 allegedly has issues with copyrighted works is not new

Melanie Kambadur (8/18/2023 14:24:13 PDT):  
>i feel like that's on the people who distributed the dataset somewhat, no?

Melanie Kambadur (8/18/2023 14:24:44 PDT):  
>like by the time a piece of data gets put into a model for training it has been heavily processed, broken up into individual tokens (subwords)

Melanie Kambadur (8/18/2023 14:25:09 PDT):  
>so obviously there is some point in model training that you need to not have copyright context but you don't necessarily distribute a datasource that way

Nisha Deo (8/18/2023 14:28:22 PDT):  
>yeah that's a really good point. It's the piracy (and us knowing and being accomplices) that's the issue -- whether we knew or not at the time

Nisha Deo (8/18/2023 14:28:42 PDT):  
>do we remove the copyright text or do we get the data like that anyways from there (silly Q)

Melanie Kambadur (8/18/2023 14:31:58 PDT):  
>um to be honest sometimes we do move the copyright text as part of common cleaning because it is very repeated across datasets

Melanie Kambadur (8/18/2023 14:32:30 PDT):  
>if you have a very repeated substring of data (such as a copyright notice), the model is prone to memorizing it and then generating it

Melanie Kambadur (8/18/2023 14:32:54 PDT):  
>also in some circumstances it can be a waste of compute to train on duplicated data

Nisha Deo (8/18/2023 14:51:44 PDT):  
>super helpful, I need to study up on all of this some more so I can catch these things more intuitively

Nisha Deo (8/18/2023 14:52:21 PDT):

>do you mind if I use some of this context in the comms plan explaining how things work?

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